



Time Left for Life on Earth Declared To Be Growing Short

By DELOS SMITH
United Press Science Editor
New York (U.P.)—We human beings can be of good cheer, according to Dr. Allen Sandage, astronomer and astrophysicist. Even if we don't destroy ourselves with our own "folly," science makes "it appear quite likely that human life is doomed by natural processes."

The natural processes he referred to are those of the sun. The way the science of astrophysics figures it, the sun is now near or close to its middle age. That is, it has been going for six billion years and has about six billion years to go. Although it is not news to astrophysicists, it will be news to many that science can calculate the time remaining for life on earth with what seems to be unassailable logic. Dr. Sandage, in a recent lecture to the trustees and staff of the Carnegie Institute gave a remarkably easy to understand account of this logic.

Matter of Time
The sun, like all other stars we know about is converting hydrogen atoms into nuclei of helium and that is the source of its radiant energy. Knowing its mass, you can calculate how many hydrogen atoms it has and had to work with. Knowing its light intensity, you can approximate the rate at which this converting is going on. But these created helium atoms are waste products which more and more threaten the internal chemical stability of the star. To compensate for these

changes, the star increases in size and increases the intensity of its radiations. All this is very slow and gradual up to a certain point, the point where the star has consumed 12 per cent of its hydrogen atoms. At this point "the star can no longer compensate for its increased helium content by small changes, but must drastically increase in radius," said Dr. Sandage. "At this point, the star is near the end of its life, because it swiftly increases in luminosity, consumes its remaining fuel at a tremendous rate, and finally sinks into obscurity and death as its fuel is depleted."

Right now, astrophysics figures, the sun has consumed 6 per cent of its fuel. Six billion years from now it will enter death throes that will last 500 million years. As it increases in radius, the temperature of the earth's surface will shoot up at a frightful rate. The expanding sun "will drive the temperature first above the boiling point of water and then to the melting point of lead. Life will have ceased, the oceans will have boiled away, and conditions will be miserable," he continued. Dr. Sandage is a staff member of the Mount Wilson and Palomar observatories of the California Institute of Technology.

Is That So?

Let's consider some early Americana particularly as it applies to the outdoors. Cowhide hinges were used mainly by early colonists. Hand-made iron strap hinges were added later, but because of the king's tax on metal hardware, most barn doors swung on leather until the end of the 18th century. Most of our early orchards were planted from seeds. A typical example is recorded by Mrs. Narcissa Whitman in her diary written at Fort Vancouver, Oregon Territory (now in the state

of Washington), 1836. She wrote: "Here we find fruit of every description—apples, grapes, pears, plums, figs... all grown from seeds. A gentleman 12 years ago, while at a party in London, put seeds of the grapes and apples in his pocket. Soon afterward, he took a voyage to America. These seeds have now greatly multiplied." Incidentally, it was an old colonial custom to "pepper old fruit trees"—meaning, to blast away with a shotgun at close range to make an old tree bear again, writes Eric Sloane in his book, *Eric Sloane's Almanac and Weather Forecaster* (Duell, Sloane & Pearce, N. Y.). This custom, he says, was brought over from Europe where some farm folk still "shoot barren trees." Possibly the shock to the health of a tree by a trunk wound and its effort to fight back and recover, spurred the yield of the fruit. Or, perhaps it is just another old superstition.

Smooth Surface Blemished
Speaking of apple trees, have you heard this one on Yankee salesmanship? The story goes that an apple orchard in Connecticut was struck badly by hail and the usually smooth surface of most of the apples were blemished by calloused spots. Not to be ruined by a little thing like that, the farmer wrapped each apple in a fine tissue paper that bore the legend "HAI-KISSED APPLES, the Fruit With a Heavenly Taste." Then he doubled the price of his apples and is said to have made a killing. The same kind of salesmanship, apparently, which makes brown eggs cost more in Boston and white eggs cost more in New York. Incidentally, in pioneer days, farmers used to settle their accounts once a year, usually in December. In colonial days, the farmer bought only indigo for paints and dyes; the other colors were taken from the trees and berries about him or "raised" right along with the crops. Clothing and cloth were dyed with butternut (brown), hickory (yellow), maple (gray), sumac (red), sassafras (orange), and pokeweed (purple). The history of purple is a most interesting one. The dye was handed down from ancient days. The royal purple was made from the purple shell, a snail, several thousands of years before Christ. In fact, the prosperity of the ancient city of Tyre was founded on this dye trade. Roman emperors wore purple robes. And, the expression "born in the purple" comes from the Byzantine custom of having pregnant empresses confined in a royal apartment lined with purple. Now purple is largely made of coal tar. The common wood-screw had no point on it before 1856. (Copyright, 1957, by Eugene Burns) (Released by McClure Newspaper Syndicate)

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On The Side

(Distributed by King Features Syndicate, Inc.)
By E. V. Durling
This department is definitely not conducting a campaign against tipping taxicab drivers or persons engaged in any other activity. What we are opposed to is having people dependent on tips to acquire a living income. We would like to see those engaged in all activities in which tips are involved paid a living wage. The tips could then be considered a bonus for unusual services. Also to be considered is the angle of the customer paying a high price for accommodations, food service, etc., and then in addition be expected to help the management take care of its payroll by extra payments in the form of tips.

Get It Right
Why do people who should know better include Kelly on lists of "Irish names"? Kelly is not an Irish name. It is an Manx name. Take the hero of that immortal song titled "Has Anybody Here Seen Kelly?" Was Kelly an Irishman? Certainly not. You will recall that he was described in the original version of the song as "Kelly From The Isle of Man."

Among the Married
Now is the time for all good men to consider how their wives are going to look in bathing suits next summer. It takes just about six months to properly streamline a plump wife. First thing to do is decrease the lady's intake of food. No seconds of course. Then give a thought to Ty Cobb's suggestion for weight reduction. That is, have the person being streamlined drink a glass of buttermilk before the meal. That will decrease the appetite.

Dividends
The Pennsylvania Railroad has been paying consecutive cash dividends on its stock since 1848. That is, for 108 years. This however, is not the record. The Equitable Security Trust Company of Wilmington, Del., has paid dividends without interruption since 1798. That is 158 years. Also the National Newark and Essex Banking Company, Newark, N. J., has been paying consecutive dividends for 152 years.

Horses and Women
Women make up one-third of the working force in the United States. More married women are in that force than ever before in history. That a woman, after marriage, should give up her job and devote herself exclusively to taking care

Roadbuilders Will Discuss Freeways

Corvallis—City parking problems and freeway construction will be among topics discussed at the 1957 northwest conference on roadbuilding at Oregon State college Feb. 20 to 22. Other topics will be asphalt tests, method of classifying county roads, right-of-way and practical and legal aspects of drainage along and across roads and streets. Ben F. Ostergren, Washington, D.C., American Road Builders' association, will speak on "The Effect of Freeway Construction on Local Roads and Street Systems."

More than 125 engineers will attend the three-day session sponsored by the state highway department and Oregon State college. W. C. Williams, state highway engineer, will open the session. Martin P. Cooney, OSC civil engineering professor, is chairman.

Another Marine Corps Instructor Investigated

Parris Island, S.C. — (U.P.)—The Marine Corps said today another drill instructor at the Parris Island Recruit Depot was under investigation for alleged maltreatment of recruits. Maltreatment charges have been brought against more than 20 drill instructors here since the April 8, 1956 "death march" in which six recruits were drowned during an unscheduled night disciplinary march into a creek on the base. No details of the new investigation were released.

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Washington (U.P.)—Attorney General Herbert Brownell Jr. defended the Middle East Emergency Committee against congressional charges that the steps it has taken to supply Western Europe with oil violate the anti-trust laws.



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to her job and a paycheck of her own. It gives her a glorious feeling of independence and also provides the money for more clothes, cosmetics, beauty treatments, etc., than she would be able to afford if the family had only one paycheck.

The six stage plays having the longest Broadway runs are: 1. "Life With Father." 2. "Tobacco Road." 3. "Abie's Irish Rose." 4. "Oklahoma." 5. "South Pacific." 6. "Harvey." All of these plays were produced and presented at comparatively recent dates. Yet it not be assumed that there were no really long runs in New York before this. For example, that classic of the yesteryear titled "The Old Homestead," starring Denman Thompson, ran for three years at the Academy of Music on East 14th st.

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CONSTIPATED?

new laxative discovery un-locks bowel blocks without gag, bloot or gripe

Constipation is caused by what doctors call a "thrifty" colon. A "thrifty" colon is one that, instead of retaining moisture as it should, does the opposite: robs the colon of so much moisture that its contents become dehydrated, so dry that they block the bowel, so shrunken that they fail to excite or stimulate the urge to purge that propels and expels waste from your body.

TO REGAIN NORMAL REGULARITY two things are necessary. First, the dry, shrunken contents of your colon which now block your bowel must be re-moistened. Second, bulk must be brought to your colon to STIMULATE IT and so, excite its muscles to action; to a normal urge to purge.

AND, OF ALL LAXATIVES, only COLONOID, the amazing new laxative discovery possesses COLONOID'S great moisturizing capacity plus COLONOID'S stretch-stimulating bulk that activates normal colonic reflexes. So effective that it relieves even chronic constipation overnight, COLONOID is yet so smooth, so gentle it has been proved safe even for women in the most critical stages of pregnancy.

SUPERIOR TO OLD STYLE bulk, salt or drug laxatives. COLONOID neither gags, bloats nor gripes; does not interfere with your absorption of vitamins and other valuable food nutrients; and in clinical tests, did not cause rash or other side reactions.

IT'S A PHYSIOLOGICAL FACT. Exercise tones your body! And COLONOID exercises your colon to tone it against constipation, overnight! Whether occasional, frequent or chronic, whatever your degree of constipation, get COLONOID, in easy-to-take tablet form at any drug counter, today! The price, only 98c for the economical 60 tablet package, brings you positive relief at less than 2c per tablet.

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